# Cytometer Performance Report

| | | | |
|---|---|---|---|
| Cytometer: | FACSCantoII | User: | Administrator |
| Cytometer Name: | FACSCantoII | Institution: | N/A |
| Serial Number: | V33896201821 | Software: | BD FACSDiva 8.0.2 |
| Input Device: | Carousel | Date: | 04/17/2020 10:22 AM |
| Tube Loaded Manually: | Yes | Cytometer Baseline: | 02/04/2020 09:45 AM |
| Cytometer Configuration: | Euroflow 3-laser, 8-color (4-2-2) | P/F: | Pass |

## Setup Beads

| | | | |
|---|---|---|---|
| Bead Product: | CST Setup Beads | Part #: | 910859 |
| Lot ID: | 80996 | Expiration Date: | 04/30/2020 |
| Bead Lot Information: | Available | | |

## Detector Settings

| Laser | Detector | Parameter | Target Value | Actual Target Value | % Difference Target Value | Bright Bead % Robust CV | Mid Bead Median Channel | Mid Bead % Robust CV |
|---|---|---|---|---|---|---|---|---|
| Blue | FSC | FSC | 125000 | 125320 | 0 | 1.62 | 125462 | 1.60 |
| Blue | F | SSC | 125000 | 122503 | -2 | 1.77 | 123230 | 1.79 |
| Blue | E | FITC | 15892 | 15409 | -4 | 2.75 | 336 | 20.27 |
| Blue | D | PE | 29999 | 29835 | -1 | 1.94 | 650 | 15.06 |
| Blue | B | PerCP-Cy5-5 | 43732 | 43946 | 0 | 3.57 | 1184 | 19.79 |
| Blue | A | PE-Cy7 | 30845 | 31231 | 1 | 6.08 | 594 | 41.54 |
| Red | C | APC | 46112 | 45353 | -2 | 2.45 | 1605 | 12.02 |
| Red | A | APC-Cy7 | 30458 | 30194 | -1 | 2.35 | 802 | 11.81 |
| Violet | B | V450 | 7918 | 7616 | -4 | 5.21 | 434 | 13.35 |
| Violet | A | V500 | 32171 | 31097 | -4 | 5.04 | 729 | 10.54 |

## Detector Settings (Continued)

| Laser | Detector | Parameter | Dim Bead Median Channel | Dim Bead % Robust CV | PMTV | Δ PMTV | Qr | Br | P/F |
|---|---|---|---|---|---|---|---|---|---|
| Blue | FSC | FSC | 17443 | 7.35 | 625 | 4 | N/A | N/A | Pass |
| Blue | F | SSC | 56276 | 1.27 | 564 | 5 | N/A | N/A | Pass |
| Blue | E | FITC | 61 | 62.06 | 544 | 1 | 0.0188 | 67 | Pass |
| Blue | D | PE | 136 | 48.38 | 551 | 3 | 0.1405 | 200 | Pass |
| Blue | B | PerCP-Cy5-5 | 216 | 50.07 | 657 | 1 | 0.0097 | 105 | Pass |
| Blue | A | PE-Cy7 | 110 | 102.05 | 700 | 2 | 0.0105 | 13 | Pass |
| Red | C | APC | 383 | 25.17 | 585 | 1 | 0.0250 | 166 | Pass |
| Red | A | APC-Cy7 | 177 | 27.68 | 557 | 1 | 0.0056 | 676 | Pass |
| Violet | B | V450 | 65 | 59.78 | 456 | -2 | 0.0517 | 2069 | Pass |
| Violet | A | V500 | 107 | 31.98 | 472 | -2 | 0.0249 | 611 | Pass |

## Specifications

| | |
|---|---|
| PMTV Delta from baseline: | 50 (BD) |
| Violet Laser Primary Channel Bright Bead %Robust CV: | 6.00 (Recommended) |
| Blue Laser Primary Channel Bright Bead %Robust CV: | 6.00 (Recommended) |
| Red Laser Primary Channel Bright Bead %Robust CV: | 6.00 (Recommended) |

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| Serial Number: | V33896201821 | Software: | BD FACSDiva 8.0.2 |
| Input Device: | Carousel | Date: | 04/17/2020 10:22 AM |
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## Laser Settings

| Laser | Power (mW) | Power Spec. (mW) | Current (mA) | Current Guidelines (mA) | Delay (Trigger on FSC) | Delay (Trigger on Fluorescence) | Area Scaling Factor |
|---|---|---|---|---|---|---|---|
| Violet | 59.55 | 47.98 - 71.98 | N/A | N/A | -32.99 | -32.43 | 1.06 |
| Blue | 20.35 | 16.27 - 24.41 | 1.28 | 0.99 - 1.49 | 0.00 | 0.00 | 1.44 |
| Red | 17.84 | 13.60 - 20.40 | N/A | N/A | 29.75 | 30.29 | 1.18 |

Window Extension: 7.00
FSC Area Scaling Factor: 0.88

## Threshold

Threshold (FSC): 10182

## Fluidics

FACSFlow Pressure: 3.90 Sample Pressure: 3.60
Spec.: 3.80 - 4.00

Comments